

Recovery Plan Action Status

Plan Name: South Florida Multi-Species Recovery Plan (68 spp.)

Plan Status: Final

Plan Date: 18-May-99

Lead Agency: USFWS

Lead Office: South Florida Ecological Services Field Office

(562-3909)

| Species | Action Priority # | Action # | Action Description | Action Status | Est. Initiation Date | Est. Completion Date | Responsible Parties | Work Type | Labor Type | Action Comments |
|--|-------------------|-------------|---|-----------------|----------------------|----------------------|--|--|-----------------------------|--|
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 1 | cefr-h1.1 | Acquire habitat for fragrant prickly-apple cactus (Cereus eriophorus var. fragrans) | Ongoing Current | Prior to FY 1995 | | Florida Department of Environmental Protection, Non-governmental organizations, South Florida counties | Acquisition: General | Labor type not yet selected | Cost dependent upon specific site and amount of land acquired. Action lead(s): FWS |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 3 | cefr-h1.2.1 | Control off-road vehicle use. | Ongoing Current | Prior to FY 1995 | | Florida Department of Environmental Protection | Other: Law Enforcement, Other: Regulations | Labor type not yet selected | Task currently conducted and cost is included in responsible agency's budget. Action lead(s): FDEP |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 1 | cefr-h1.2.2 | Control invasive and exotic plants. | Ongoing Current | Prior to FY 1995 | | Florida Department of Environmental Protection, South Florida counties, Private industry, landowners, etc. | Management: Predator and Competitor Control | Labor type not yet selected | Cost is per acre (ex. 2/acre); Total cost dependent upon number of acres infested with exotics. Action lead(s): FDEP |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 1 | cefr-h1.2.3 | Reduce impacts associated with herbicide application. | Ongoing Current | Prior to FY 1995 | | Florida Department of Environmental Protection, South Florida counties, Private industry, landowners, etc. | Management: Other | Labor type not yet selected | Task currently conducted and cost is included in responsible agency's budget. Action lead(s): FDEP |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 1 | cefr-h1.2.4 | Define and implement habitat management techniques. | Ongoing Current | Prior to FY 1995 | | Florida Department of Environmental Protection | Management: Habitat Maintenance and Manipulation | Labor type not yet selected | Cost dependent upon type of management implemented. Action lead(s): FDEP |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 2 | cefr-h1.2.5 | Restore habitat. | Ongoing Current | Prior to FY 1995 | | Florida Department of Environmental Protection, South Florida counties | Management: Habitat Maintenance and Manipulation | Labor type not yet selected | Cost is per acre (ex. 1/acre); Total cost dependent upon number of acres restored. Action lead(s): FDEP |

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| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 3 | cefr-h2.1 | Determine effects of fire. | Ongoing Current | Prior to FY 1995 | | Florida Department of Environmental Protection, Public and private universities | Research: Ecosystem Studies | Labor type not yet selected | Action lead(s): FWS, FDEP, universities |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 2 | cefr-h2.2 | Determine effects of vegetative thinning. | Ongoing Current | Prior to FY 1995 | | Florida Department of Environmental Protection, Public and private universities | Research: Management Techniques | Labor type not yet selected | Action lead(s): FWS, FDEP, universities |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 3 | cefr-h3.0 | Continue public information efforts about xeric vegetative communities and their unique biota. | Ongoing Current | Prior to FY 1995 | | Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Non-governmental organizations, Florida Division of Forestry, Private industry, landowners, etc. | Other: Information and Education | Labor type not yet selected | Action lead(s): FWS |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 2 | cefr-s1.1 | Inventory known populations. | Ongoing Current | Prior to FY 1995 | | Florida Department of Environmental Protection, Non-governmental organizations, Florida Natural Areas Inventory, South Florida counties | Research: Population Surveys | Labor type not yet selected | Action lead(s): FDEP, FNAI, NGO |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 2 | cefr-s1.2 | Search for additional populations. | Ongoing Current | Prior to FY 1995 | | Florida Department of Environmental Protection, Non-governmental organizations, Florida Natural Areas Inventory, South Florida counties | Research: Population Surveys | Labor type not yet selected | Action lead(s): FDEP, FNAI, NGO |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 2 | cefr-s1.3 | Map distribution of known populations and suitable habitat. | Ongoing Current | FY 2000 - FY 2004 | | Florida Department of Environmental Protection, Florida Natural Areas Inventory, South Florida counties | Research: Population Surveys | Species Expert | Inventory and tagging of known individuals on public land is complete. Historic sites were visited and inventoried in 2006-2007. Action lead(s): FWS |

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| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 1 | cefr-s2.1 | Acquire or otherwise protect habitat through acquisition, conservation easements, or agreements with landowners. | Ongoing Current | Prior to FY 1995 | | Florida Department of Environmental Protection, South Florida counties, Private industry, landowners, etc. | Acquisition: General | Labor type not yet selected | Cost dependent upon specific site and amount of land acquired. Action lead(s): FWS |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 1 | cefr-s2.2 | Use local or regional planning to protect habitat. | Ongoing Current | Prior to FY 1995 | | South Florida counties | Other: Administration, Other: Regulations | Labor type not yet selected | Cost included in standard operating procedures of Federal agency's budget. Action lead(s): FWS |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 2 | cefr-s2.3.1 | Characterize the habitat and identify suitable sites for experimental outplantings. | Ongoing Current | FY 1995 - FY 1999 | | Florida Department of Environmental Protection, Non-governmental organizations | Research: Habitat Requirements, Research: Reintroduction | Labor type not yet selected | Action lead(s): FDEP, NGO |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 1 | cefr-s2.3.2 | Conduct experimental outplantings. | Not Started | | | Florida Department of Environmental Protection, Non-governmental organizations | Research: Reintroduction | Labor type not yet selected | Action lead(s): NGO |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 1 | cefr-s2.3.3 | (Re)introduce plants to protected sites. | Not Started | | | Florida Department of Environmental Protection, Non-governmental organizations | Management: Reintroduction | Labor type not yet selected | Action lead(s): NGO |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 2 | cefr-s2.3.4 | Monitor experimental outplantings. | Not Started | | | Florida Department of Environmental Protection, Non-governmental organizations, Public and private universities | Research: Reintroduction | Labor type not yet selected | Action lead(s): FDEP, NGO |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 2 | cefr-s2.4.1 | Conserve germ plasm. | Ongoing Current | FY 1995 - FY 1999 | | Non-governmental organizations, Private industry, landowners, etc. | Research: Propagation | Labor type not yet selected | Currently in collection; need to expand genetic diversity in collection. Action lead(s): NGO |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 2 | cefr-s2.4.2 | Continue propagation and development of successful horticultural methods. | Ongoing Current | Prior to FY 1995 | | Non-governmental organizations, Private industry, landowners, etc. | Research: Propagation | Labor type not yet selected | Action lead(s): NGO |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 2 | cefr-s2.4.3 | Maintain ex situ collections. | Ongoing Current | Prior to FY 1995 | | Non-governmental organizations, Private industry, landowners, etc. | Research: Propagation | Labor type not yet selected | Action lead(s): NGO |

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| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 2 | cefr-s2.5.1 | Initiate section 7 consultation when applicable. | Ongoing Current | Prior to FY 1995 | | U.S. Bureau of Land Management, U.S. Department of Agriculture, U.S. Geological Survey, Biological Resources Division, U.S. Federal Emergency Management Agency, U.S. Geological Survey, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, Natural Resources Conservation Service, United States Coast Guard, U.S. Air Force, US Forest Service | Other: Regulations | Labor type not yet selected | Cost included in standard operating procedures of Federal agency's budget. Action lead(s): All Federal agencies |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 2 | cefr-s2.5.2 | Enforce take and trade prohibitions. | Ongoing Current | Prior to FY 1995 | | Florida Department of Agriculture and Consumer Services/Division of Plant Industry | Other: Law Enforcement | Labor type not yet selected | Cost included in standard operating budgets of participating agencies. Action lead(s): FWS |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 1 | cefr-s3.1 | Study the reproductive biology of fragrant prickly-apple. | Complete | FY 1995 - FY 1999 | FY 2008 | Florida Department of Environmental Protection, Public and private universities | Research: Demographic Studies | Labor type not yet selected | Action lead(s): FWS |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 1 | cefr-s3.2 | Study the response of fragrant prickly-apple to habitat management treatments. | Not Started | | | Florida Department of Environmental Protection, Public and private universities | Research: Management Techniques | Labor type not yet selected | Action lead(s): FDEP, universities |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 2 | cefr-s3.3 | Conduct genetic studies to document genetic variation within and between populations. | Not Started | | | Public and private universities | Research: Genetics | Labor type not yet selected | Action lead(s): universities |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 1 | cefr-s4.1 | Initiate quarterly monitoring program. | Ongoing Not Current | Prior to FY 1995 | | Florida Department of Environmental Protection | Research: Population Assessment | Labor type not yet selected | Action lead(s): FWS |

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| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 3 | cefr-s4.2 | Collect and archive existing and historical data. | Complete | FY 2006 | FY 2007 | Florida Department of Environmental Protection, Non-governmental organizations, Florida Division of Forestry, Institute for Regional Conservation, Public and private universities | Research: General | Contract | Action lead(s): FWS |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 3 | cefr-s5.0 | Provide public information about the fragrant prickly-apple cactus. | Ongoing Current | Prior to FY 1995 | | Florida Department of Environmental Protection, South Florida counties | Other: Information and Education | Labor type not yet selected | Action lead(s): FWS |
| Fragrant prickly-apple (Cereus eriophorus var. fragrans) | 3 | cefr-s6.0 | Establish delisting criteria. | Not Started | | | Florida Department of Environmental Protection, South Florida counties, Public and private universities | Other: Administration | Internal Administrative | Action lead(s): FWS |